# Engineering and Operations Work Group Resource Action Matrix

Note: Inclusion of Resource Actions in this document at this time does not denote support by any member of the Engineering and Operations Work Group

| E&O Resource Number (Resource Classification Category) | DWR Resource Tracking Number | Stakeholder Resource Number | Description of Potential Resource Action | Temperature Related | Flow/Water Level Related | Construction/Heavy Equipment | OFD O&M | Permitting | Cross-Resource/Area Effect | Nexus to the Project Operations | Need Additional Info | Comments and Additional Information | Technical Contacts/ Resource Team | Date for NarrativeReport |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Thermalito Afterbay** | | | | | | | | | | | | | | |
| EO1 (2) | | BC PME #3 | Thermalito Afterbay Water Temperature Improvements: Construct facilities to convey cold water directly to TAB Outlet facility | X | | X | X | X | X | | X | Initial analyses of historical afterbay water temperature data show a difference of 2 to 4 degrees between the TAB outlet and Western Canal Diversion. From that set of analyses, we believe the maximum reduction in water temperature for release to the river is 2 to 4 degrees; however, the increase in the Western Canal diversion water temperature is probably somewhat less than that amount. Consider weir or canal options that may be more reasonable. A draft report has been developed to look at data that has been collected and evaluate the need for additional analyses. The report is being updated to include work by the E&O WG on brainstorming options to address water temperature issues in the afterbay. | Lori Brown, Art Hinojosa (modeling), Rashid Ahmad (engineering) | 05/21/04 |
| EO2 (2) | | BC PME #3 | Thermalito Afterbay Water Temperature Improvements: Curtail pumpback and peaking during 4-week rice planting season | X | X | | | | X | | X | Compare Scenario 1 to benchmark to determine potential change in water temperature conditions in the afterbay. Both EO2 AND EO3 are being incorporated into Scenario 23. | Lori Mathis (modeling) | Pending Completion of Scenario 23 |
| EO3 (2) | | BC PME #3 | Thermalito Afterbay Water Temperature Improvements: Operate Lake Oroville TCD to optimize for recreation, rice production, and fisheries needs. | X | X | | X | | X | | X | Compare Scenario 2 to benchmark to determine potential change in water temperature conditions in the afterbay. | Lori Mathis (modeling) | Pending Completion of Scenario 23 |
| EO4 (3) | | BC PME #3 | Thermalito Afterbay Water Temperature Improvements: Construct canal to allow river diverters to take water from afterbay. | X | | X | X | X | X | | X | Depending upon the diversion point from the afterbay, the change in water temperature would be similar to the change in EO1 for Western Canal. | Rashid Ahmad (engineering) Stuart Edell | This action has not been evaluated. |
| **Operations Coordination** | | | | | | | | | | | | | | |
| EO5 (4) | | LFCA PM&E #17 | Lake Oroville Oversight Committee | | | | | | | | | Would be associated with an adaptive management program. Specifics of Adaptive Management Committees should be developed through the Settlement Process. | Curtis Creel, Lori Brown | Examples of other relicensing committees provided to E&O WG |
| EO6 (4) | | BC PME #6 | Lake Oroville Oversight Committee | | | | | | | | | | | |
| **Flood Operations** | | | | | | | | | | | | | | |

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| EO7 (2, 6) | | BC PME #10 | Develop an early warning system to convey important information during flood events. | | | | X | | | | X | Awaiting results from SP-E4. Activities outside of relicensing in the flood management area currently addressing downstream local concerns about flood issues. | Rashid Ahmad, Curtis Creel, Stuart Edell, Bill Lewis, Mary Keller | Jul-04 |
| EO8 (2, 6) | | BC PME #10 | Provide specific information on inundation, flood travel times, and flow/stage relationships at key locations along the Feather River. | | X | | | | | | X | Awaiting results from SP-E4. DWR/YCWA/USACE study on storm centerings may also provide flow/stage information for this action. | Rashid Ahmad, Curtis Creel, Stuart Edell, Bill Lewis, Mary Keller | Jul-04 |
| **Feather River Upper Watershed** | | | | | | | | | | | | | | |
| EO9 (5) | | BC PME #11 | Develop a watershed protection plan to reduce intensity of wildfires and improve water quality and quantity. | | | | | | | | | This resource action has been transferred to the Land Use Workgroup; however, investigating possible watershed modeling will need to be closely coordinated with the E&O Workgroup. At this time, no further action is needed by the E&O Workgroup. Butte County has investigated options for watershed modeling; this information could be passed along to the Land Use Work Group for further consideration. | Art Hinojosa, Stuart Edel | |
| **Local Infrastructure** | | | | | | | | | | | | | | |
| EO10 (4) | | BC PME #8 | Develop and Implement Measures and Programs to Rectify Past, Present, and Future Lake Oroville Facilities and Operational Impacts on Local Government Services and Infrastructure | | | | | | | | | Incremental effects associated with new criteria will be evaluated as part of the PDEA process. | Lori Brown, Stuart Edell | |

Key for "Resource Classification Category" Column (Note: "x" denotes the resource action has not yet been classified.)

1. These resource actions have sufficient information to determine that the action could reasonable be expected to produce beneficial results.
2. These resource actions are awaiting study plan or technical analyses before the EOWG can determine if they could produce beneficial results.
3. These resource actions have a high degree of uncertainty regarding the ability to affect the desired outcome.
4. Recommendation for consideration as a settlement issue.
5. Not recommended for further consideration.
6. These resource actions are being accomplished outside of the relicening effort.